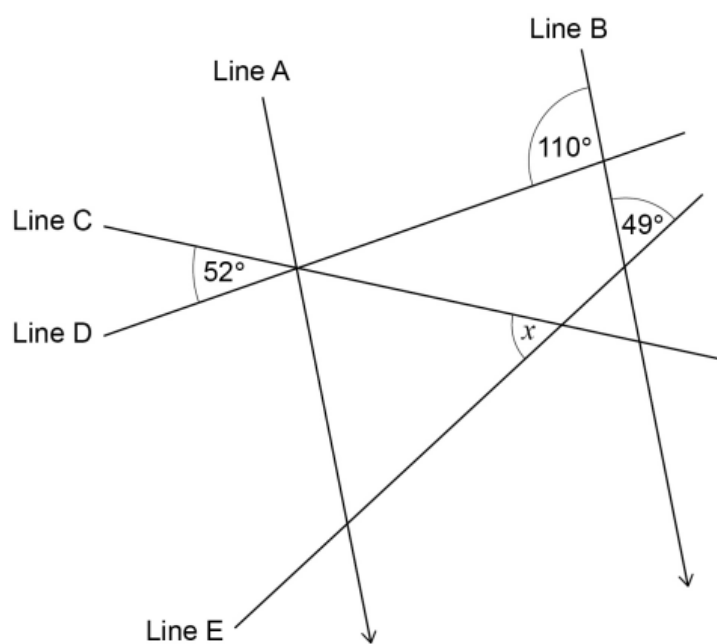


- 6 Lines A, B, C, D and E intersect as shown.  
Lines A and B are parallel.



Not drawn  
accurately

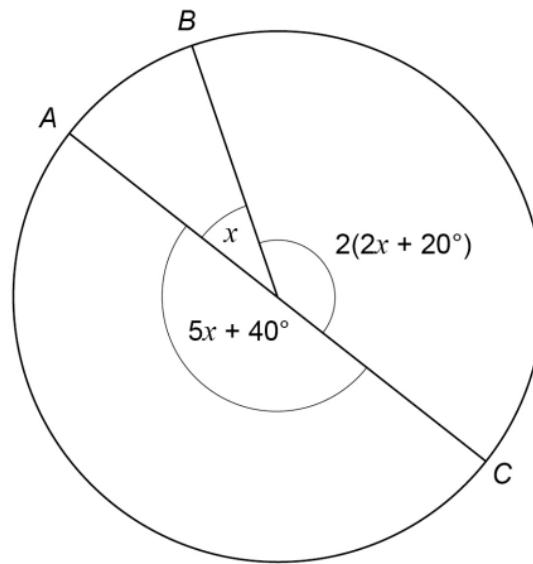
Work out the size of angle  $x$ .

[3 marks]

12

$A$ ,  $B$  and  $C$  are three points on a circle.  
The radii from  $A$ ,  $B$  and  $C$  are shown.

Not drawn  
accurately



Is  $AC$  a diameter of the circle?  
You **must** show your working.

[3 marks]

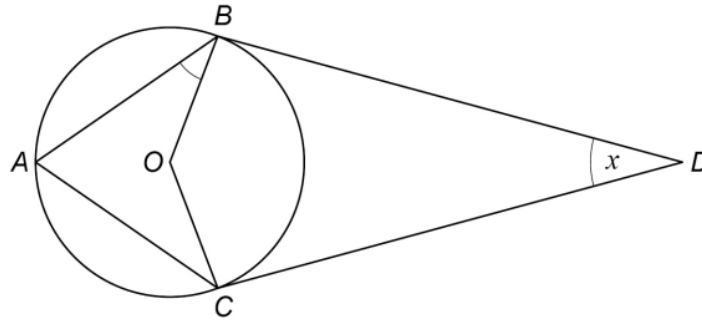
29

$A$ ,  $B$  and  $C$  are three points on the circumference of a circle, centre  $O$ .

$BD$  and  $CD$  are tangents to the circle.

$ABDC$  is a kite.

Angle  $BDC$  is  $x$



Not drawn  
accurately

Prove that angle  $ABO$  is  $45^\circ - \frac{x}{4}$

[4 marks]